

Exercital 1/ Lab 9.

$$y[m] = \frac{1}{2} \cdot y[m-1] + \times [m]$$

$$\chi[M] = \left(\frac{1}{4}\right)^{M} u[M]$$

	x [m]	y[m]
M = 0	1	1
W = 1	1/4	3/4
N = 2	1/16	1,6
M = 3	1/64	15/64
M = 4	1/256	31/256
M = 5	A/102U	63/NO24
	1	1 1
	9	n

$$\frac{1}{2} = \frac{1}{2} + 0 \cdot \frac{1}{2} = \frac{1}{2}$$

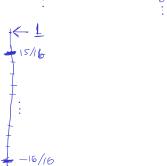
$$y[1] = \frac{1}{2} \cdot \underline{1} + \frac{1}{4} = \frac{3}{4}$$

b)	15014F, Trumhiere
+/.	15/16 T
	15014F, runniere MAX = 15/16 T 14/16 T 13/16 T 14/16
	15/16 manuell
	-1/16 +
	min = -16/16

$$\frac{1}{5}$$
 $\frac{1}{5}$

$$0, 111 = \frac{15}{16}$$
 $0, 1110 = \frac{14}{16}$
 $\frac{4}{16}$

	$[\sim] \times$	J [m]
N = 0	15/16 (0,1111)	15/16 (0,111)
M = 1	1/4=4/16 (0,0100)	11/16 (0,1011)
M = 5	1/16	6/16
M = 3	0	3/16
M = 4	D	1/1/6
m = 5	0	©/1b
	l Ó	0
		o.
	1	÷ //



$$\frac{4}{16} = 0.0100$$

$$9[1] = \begin{bmatrix} 1 & .15 \\ 2 & .16 \end{bmatrix} + \frac{4}{16} = \frac{11}{16}$$

$$= \frac{7.5}{16} + \frac{4}{16} = \frac{11}{16}$$
(2.10)

1/4 = 4/16

$$= \frac{7}{16} + \frac{4}{16} = \frac{11}{16}$$

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$$= \frac{7}{16} + \frac{4}{16} = \frac{11}{16}$$

$$= \frac{7}{16} + \frac{1}{16} = \frac{11}{16}$$

$$= \frac{5}{16} + \frac{1}{16} = \frac{11}{16}$$

$$= \frac{5}{16} + \frac{1}{16} = \frac{11}{16}$$

$$=\frac{5}{16}+\frac{1}{16}=\frac{6}{16}$$

$$y[1] = \frac{1}{2} \cdot \frac{15}{16} + \frac{4}{16} = \frac{8}{16} + \frac{4}{16} = \frac{12}{16}$$

$$+ \frac{8}{16} \left[\frac{1}{16} \right] = \frac{8}{16}$$

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$$+ \frac{1}{16} \left[\frac{1}{16} \right] = \frac{12}{16}$$

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$$\chi[3] = \frac{1}{64} = \frac{0.25}{16}$$

